

Product datasheet for **SC116395**

MT3 (NM_005954) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: MT3 (NM_005954) Human Untagged Clone
Tag: Tag Free
Symbol: MT3
Synonyms: GIF; GIFB; GRIF; ZnMT3
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)
Fully Sequenced ORF: >OriGene ORF within SC116395 sequence for NM_005954 edited (data generated by NextGen Sequencing)

```
ATGGACCCTGAGACCTGCCCTGCCCTTCTGGTGGCTCCTGCACCTGCGGGACTCCTGC
AAGTGCGAGGGATGCAAATGCACCTCCTGCAAGAAGAGCTGCTGCTCCTGCTGCCCTGCG
GAGTGTGAGAAGTGTGCAAGGACTGTGTGTGCAAGGCGGAGAGGCAGCTGAGGCAGAA
GCAGAGAAGTGCAGCTGCTGCCAGTGA
```

Clone variation with respect to NM_005954.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005954 unedited
CACGAGGCAGTTGCTTGGAGAAGCCGTTACCGCCTCCAGCTGCTGCTCCTCGACAT
GGACCCTGAGACCTGCCCTGCCCTTCTGGTGGCTCCTGCACCTGCGGGACTCCTGCAA
GTGCGAGGGATGCAAATGCACCTCCTGCAAGAAGAGCTGCTGCTCCTGCTGCCCTGCGGA
GTGTGAGAAGTGTGCAAGGACTGTGTGTGCAAGGCGGAGAGGCAGCTGAGGCAGAAGC
AGAGAAGTGCAGCTGCTGCCAGTGAAGAAGCACCCTCCGTGTGGAGCACGTGGAGATAG
TGCCAGGTGGCTCAGTGCCACCTATGCCTGTGGTGAAGTGTGGCTGGTGTCCCCTTCCC
TGCTGACCTTGGAGGAATGACAATAAATCCCATGAACAGCANANAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACCTCGACTCTAAATTGCGCCCGGTCA
TAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCCAGTGCCTCTCC
TGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTGCCTAATAAAATTAAGTTGCA
TCATTTTGTCTGACTAG
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Gene Summary:

This gene is a member of the metallothionein family of genes. Proteins encoded by this gene family are low in molecular weight, are cysteine-rich, lack aromatic residues, and bind divalent heavy metal ions. This gene family member displays tissue-specific expression, and contains a threonine insert near its N-terminus and a glutamate-rich hexapeptide insert near its C-terminus relative to the proteins encoded by other gene family members. It plays an important role in zinc and copper homeostasis, and is induced under hypoxic conditions. The encoded protein is a growth inhibitory factor, and reduced levels of the protein are observed in the brains of individuals with some metal-linked neurodegenerative disorders such as Alzheimer's disease. [provided by RefSeq, Sep 2017]